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| 10/537,345 | 06/03/2005 | Loic Charles | 4590-405 | 3455 |
| 33308 7590 07/25/2008 LOWE HAUPTMAN & BERNER, LLP 1700 DIAGONAL ROAD, SUITE 300 ALEXANDRIA, VA 22314 | | | | |
| EXAMINER BEAULIEU, YONEL | | | | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



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| 10537345 | 6/3/05 | CHARLES, LOIC | 4590-405 |

EXAMINER

/Yonel Beaulieu/

| ART UNIT | PAPER |
|----------|----------|
| 3661 | 20080721 |

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Commissioner for Patents

THIS ACTION REPLACES THE REASON FOR ALLOWANCE PREVIOUSLY SUBMITTED.

Allowable Subject Matter

Claims 1 - 7 are allowed.

The prior art of record fail to teach a method of validating a flight plan constraint, at an imposed waypoint, for a flight computer, comprising, among other limitations, making a forecast of an aerodyne displacement up to the imposed waypoint for a validation of the constraint by [an] FMS flight computer, taking into account of the transition between the instances of application by the aerodyne of the flight presets prevailing before the resumption of the automatic following of the flight plan and those newly provided by the flight computer during the same resumption, and validating the constraint in the case where it would not be complied with by the aerodyne if it reached [the] imposed waypoint by following the forecast of displacement in order that it remains taking into account subsequent automatic following of the flight plan. The method further taking into account a vertical trajectory forecast made according to a first order variation model complying with the relation:

$$V_z = (V_{z0} - V_{zf})e^{(-1/\zeta)} + V_{zf}$$

Where t is the time variable, and ζ a constant characteristic of the aerodyne steered according to a law of acquisition of a vertical speed preset V_{zf}

The method further estimating the date t_{seq} of passage of the aerodyne at the constrained waypoint on the basis of Δd_{ist0} by applying the relation:

$$t_{seq} = (\Delta d_{ist0}) / (GrdSpd)$$

and further following a first order variation model complying with the relation:

$$\Delta z_{seq} = -\zeta(V_{z0} - V_{zf})(1 - e^{-t_{seq}/\zeta}) + V_{zf} \cdot t_{seq}$$

and the validating being in compliance with:

$$|\Delta z_{seq}| > |\Delta z_0| - \Delta z_{marg}$$

Δz_{marg} being a safety altitude margin.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to /Yonel Beaulieu/ whose telephone number is (571) 272-6955. The examiner can normally be reached on Mon., Wed. & Thur. between 0900 and 1600.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas BLACK can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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